

New Generation HD Day/Night Camera

(Build-in OSD)

User's Manual

Apply to: Box Camera IR Waterproof Camera Dome Camera .

Thank you for purchasing our products. Please read the manual carefully before operating

Version: YX-ZX414114V01 44#

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Safety Precaution

	Warning Don't dismantle without authority, becareful thunder striking.	
Note: To avoid thunder-strking, please don't open the backcover, the maintenance must be made by our authorized serviceman.		



This symbol means that there might exist uninsulated dangerous voltage inside the case, be careful of electric shock



This symbol reminds you to pay attention to important operation and maintenance instructions in the accompanied information

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Warning

- In order to prevent damage caused by fire or electric shock, please do not put cameras exposed in the moist environment or rainwater
- Please make sure the adapter is consistent with product specifications, otherwise it might cause fire, electric shock or damage.
- Pay attention to polarity of the adapter, it might cause some accidents like fires
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- Power supply must be firmly fixed so as not to loose to cause fires。
- If the device gets " abnormal smell or smoke", please stop it immediately and contact with our customer service center。
- Tributor or our maintenance office authorized by our company, otherwise we won't promise warranty。
- Please do not splash water on the product components when cleaning

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Notes

- Do not make the products under great impact or stay away from strong electromagnetic interference and vibration.
- There are some sophisticated parts inside the camera, therefore, during transportation and installation, please avoid the damage cause by stress or severe vibration. For the sake of safety, please do not switch on power before accomplishing all installation.
- Please comply with all electrical safety standards during operation, camera or signal transmission cable should maintain a sufficient distance (50 meters) with high-voltage equipment or cables, if necessary, lighting and thunder protective measures must be taken.
- Please install the camera in well-ventilated environment.
- Please do not make the camera face sunshine or other strong light directly in case of any damage to the lens and the sensor.
- The temperature and humidity range for cameras work are -10 ~ 50 °C less than 95% separately, please do not start cameras beyond this range.
- To avoid lightning strikes, please make sure the installation of power supply ground line in a good condition.
- To prevent the equipment from damage by shower or splash of water, please do not place the device substances such as liquid.

Notes

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I、Feature

1. New Generation SONY CCD and DSP

Adopting the latest CCD and DSP, the camera can receive clear and lucid images even at circumstances with very low illumination.

2. Wide Dynamic Range (WDR)

WDR Camera adopts cutting-edge and effective technology. With this function it can see all the view both inside the house and outside of the window with different lighting.

3. High Resolution

Color: 700TVL .

4. D/N Switch

Day & Night cameras can switch automatically into color or B/W according to optical changes.

5. 3D DNR

Digital Noise Reduction Technology enhances the ability to handle with signal noise ratio, this technology makes camera can receive more clear and vivid images even under low-light conditions.

6. Motion Detect

Motion detection function can trigger alarm or recording when sensing moving objects, users can set the sensitivity and multiple detection zones

7. Privacy Mask

The Privacy Mask can block out sensitive areas from view, covering the areas with a solid block of color, you can adjust the mask position and size

8. OSD

On Screen Display Menu

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On Screen Display Menu

II、Interface

2.1 Interface



1	ENTER	Push the joystick down to enter OSD menu
	UP/DOWN	Select the desired feature by using Joystick with Up / Down direction
	LEFT/RIGHT	Change the status of the selected feature by using Joystick with Left / Right direction
2	VIDEO TEST/ VIDEO OUT	Additional video out for installation
3	LED LEVEL	Adjusting brightness of IR LEDs

II、Interface

2.1 Interface



1	ENTER	Push the joystick down to enter OSD menu
	UP/DOWN	Select the desired feature by using Joystick with Up / Down direction
	LEFT/RIGHT	Change the status of the selected feature by using Joystick with Left / Right direction
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III、OSD

Press“Enter”button for 2s, camera screen will pop up system main menu. (eg, pic 1)



3.1 Scene select

Users can select different scene according to camera environment, including automatic, indoor, outdoor, backlit, traffic monitoring, user-defined..

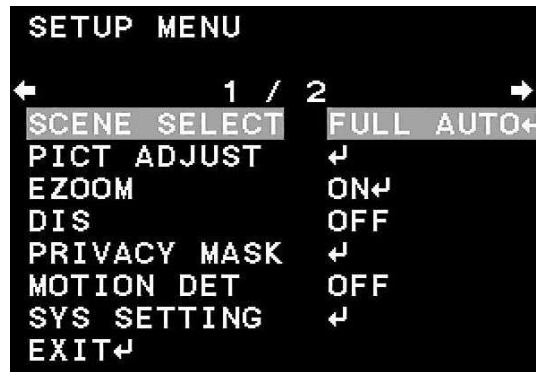
III、OSD

Press“Enter”button for 2s, camera screen will pop up system main menu. (eg, pic 1)



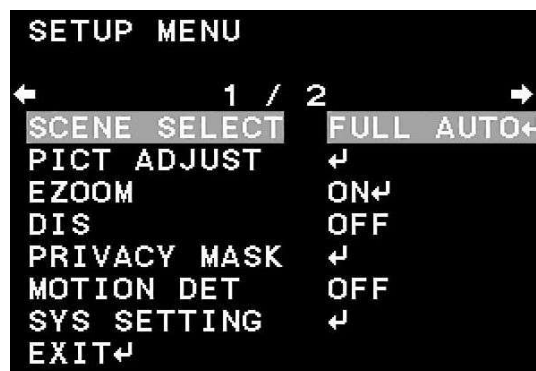
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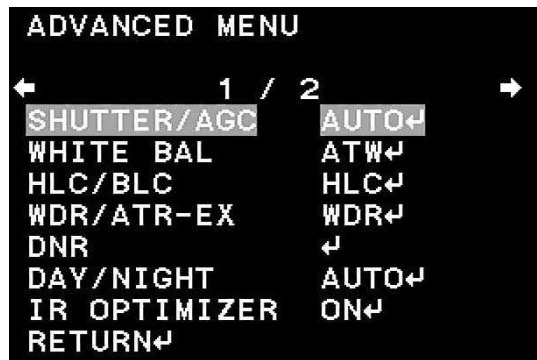
3.1.1 Shutter/AGC

Move the cursor to the main menu function "Scene Select" menu item , press the " enter " button to enter the " Advanced Settings" sub-menu, move the cursor to " Shutter / AGC " item , this function can be divided into "automatic" control and "manual" control, and "fixed" control, the user can " left and right " to be set according to actual needs.

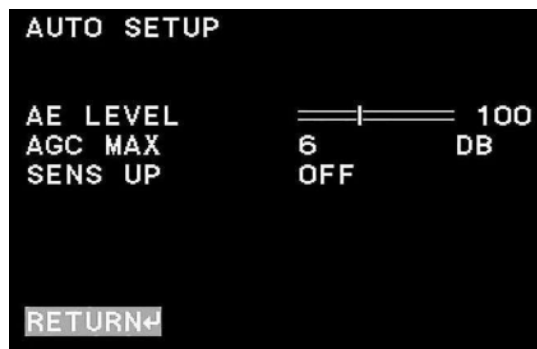


3.1.1 Shutter/AGC

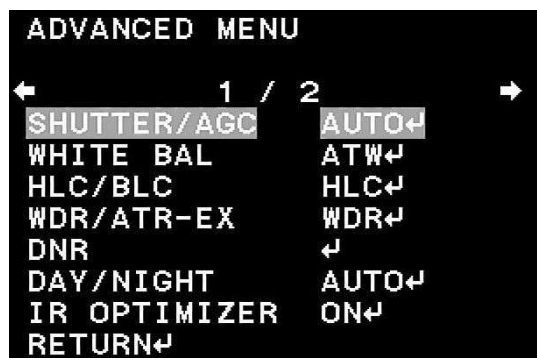
Move the cursor to the main menu function "Scene Select" menu item , press the " enter " button to enter the " Advanced Settings" sub-menu, move the cursor to " Shutter / AGC " item , this function can be divided into "automatic" control and "manual" control, and "fixed" control, the user can " left and right " to be set according to actual needs.



a. Select "Auto" setting type, press the "Confirm" button to enter the sub-menu of Automatic Control. Inside Auto Iris setting sub-menu, there are "AE LEVEL", "AGC MAX", "SENS UP" three settings. "AGC" can adjust the peak value, the bigger value, the brighter picture, but the noise will be much bigger. In "Sens Up", there are "on" and "off" are optional.



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b. Manual mood

Manual Setup, user can adjust the Shutter Mode Shutter Speed
And AGC

```
MANUAL SETUP

SHUTTER      1 / 50
AGC MAX      44.8   DB

RETURN←
```

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Manual Setup, user can adjust the Shutter Mode Shutter Speed
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MANUAL SETUP

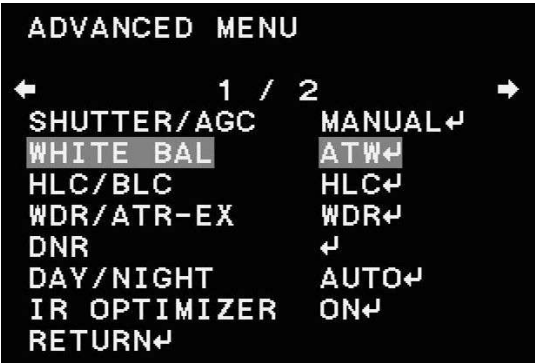
SHUTTER      1 / 50
AGC MAX      44.8   DB

RETURN←
```

3.1.2 WHITE BAL

It can restore the authenticity of the color when it is affected by the change of temperature. The user can choose different white balance mode accordingly, ATW/PUSH/USER1/USER2/ MANUAL/PUSH LOCK.

Normally, only when you choose “user defined” setting can adjust the mood, otherwise the white balance is fixed



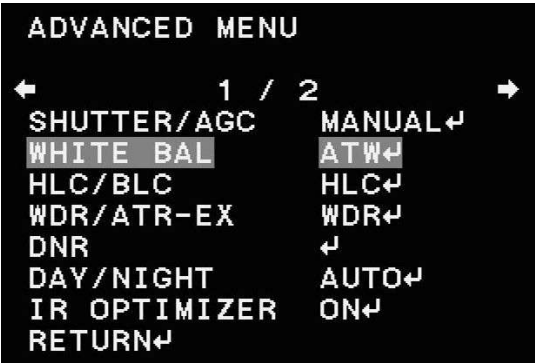
3.1.3 HLI/BLC

In the main menu, press the cursor to “Scene Selection”, press “Enter” button to enter “advanced settings” sub-menu. In the “HLI/BLC” menu, press “left” “right” key to select “off” “HLI” “BLC”, only the “Scene Selection” is “user defined”, it can select “BLC”.

3.1.2 WHITE BAL

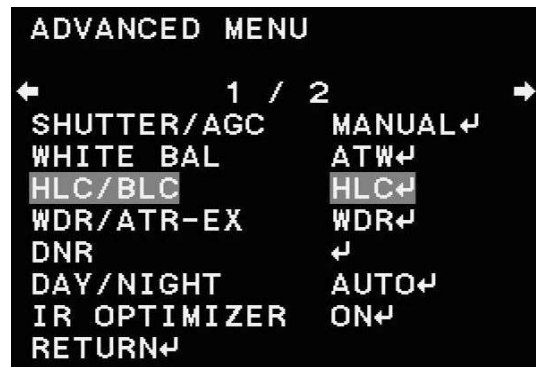
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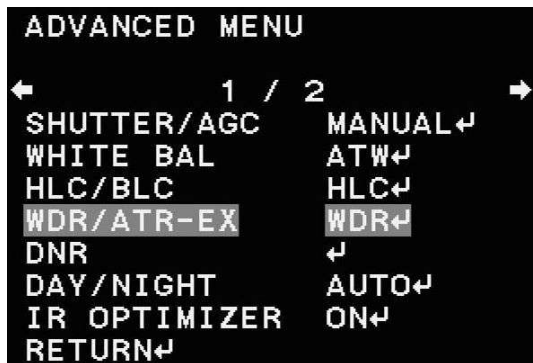
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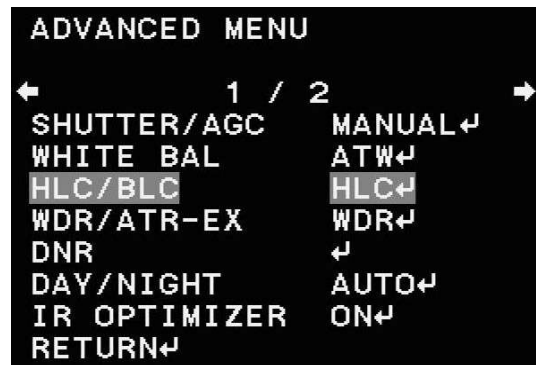


3.1.4 WDR

The WDR feature improves the dynamic range and the visibility of the image by providing the optimal gradation compensation of the image in one field. This is achieved by two ways of image processing, luminance compression and contrast enhancement, so that the tone can be enhanced at highlighted and dark areas

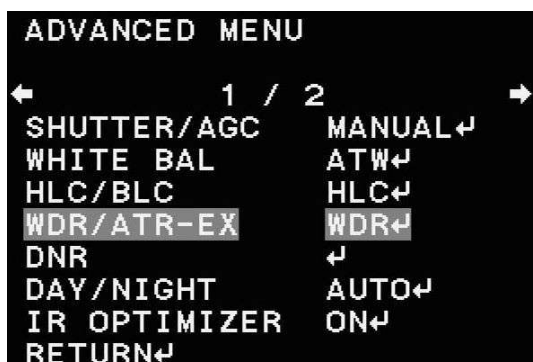


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15

For WDR, there are two sets. One is contrast , the other is clear face.

“Contrast” have three options----“ Low; Mid ; High”

“Clear Face” have four options----“Off ; Low; Mid ; High”



For WDR, there are two sets. One is contrast , the other is clear face.

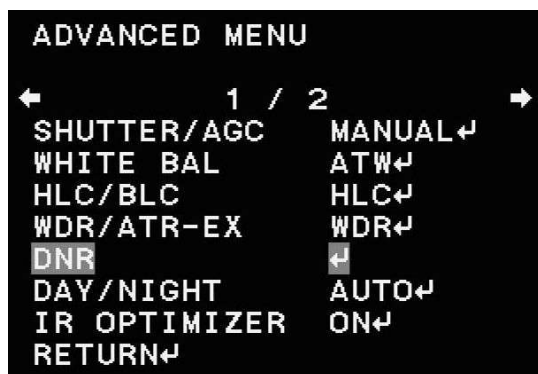
“Contrast” have three options----“ Low; Mid ; High”

“Clear Face” have four options----“Off ; Low; Mid ; High”



3.1.5 DNR

In the main menu, press the cursor to “Scene Selection”, press “Enter” button to enter “advanced settings” sub-menu. In the "noise reduction" menu press "enter" button to enter the "noise reduction" sub-menu, it can adjust the level of noise reduction, the bigger the value , the higher the noise reduction level .

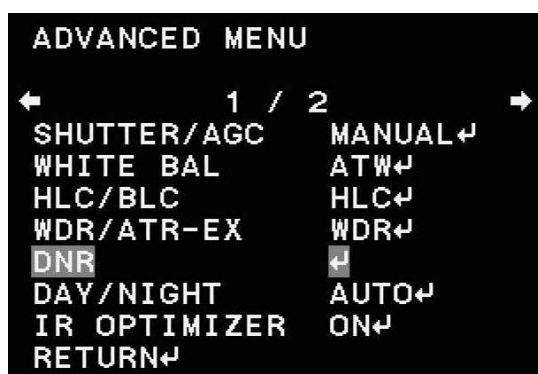


3.1.6 DAY/NIGHT

Day/night switching function is mainly for the user to use the camera easily on different occasions. There are three modes of day/night: Day mode, Night mode, auto mode.

3.1.5 DNR

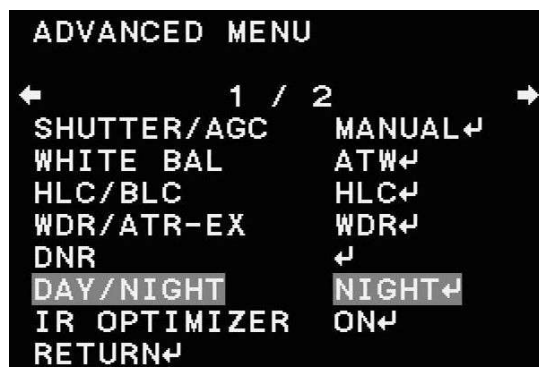
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3.1.6 DAY/NIGHT

Day/night switching function is mainly for the user to use the camera easily on different occasions. There are three modes of day/night: Day mode, Night mode, auto mode.

In the main menu, press the cursor to “Scene Selection”, press “ENTER” button to enter “advanced settings” sub-menu. In the “Day/Night”, press “left” “right” key to select “white mode”, “black mode”, “auto mode”.



A. Auto mode

In the “Day/Night” menu, press “left” “right” key to select “Auto mode” and press “ENTER” button to “Auto mode” sub-menu, this function control the camera output color or black and white image according to the strength of the light, user can set the parameter according to the environment.

B. Day mode

Image will always be color

In the main menu, press the cursor to “Scene Selection”, press “ENTER” button to enter “advanced settings” sub-menu. In the “Day/Night”, press “left” “right” key to select “white mode”, “black mode”, “auto mode”.



A. Auto mode

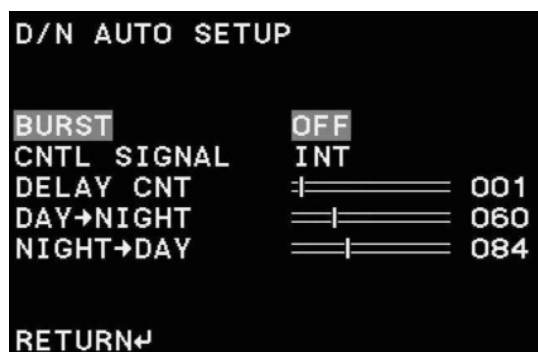
In the “Day/Night” menu, press “left” “right” key to select “Auto mode” and press “ENTER” button to “Auto mode” sub-menu, this function control the camera output color or black and white image according to the strength of the light, user can set the parameter according to the environment.

B. Day mode

Image will always be color

C. Night

Image will always be black and white



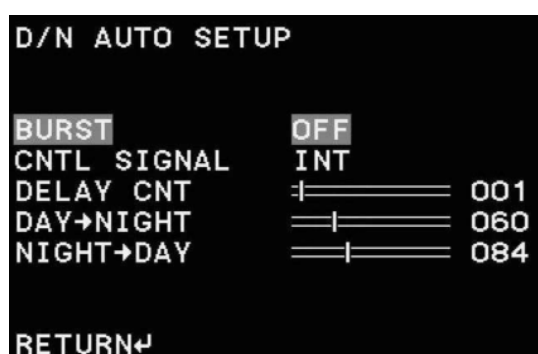
3.1.7 DEFOG

You can choose the Defog function according the environment, Defog can be used to help improve the captured image in poor weather conditions such as smog, fog, or smoke. The visibility of the cameras can be enhanced in any weather condition.

Off/Low/Middle/High selectable and set the best.

C. Night

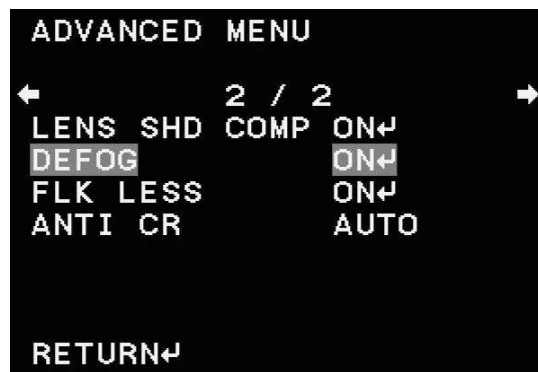
Image will always be black and white



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Off/Low/Middle/High selectable and set the best.

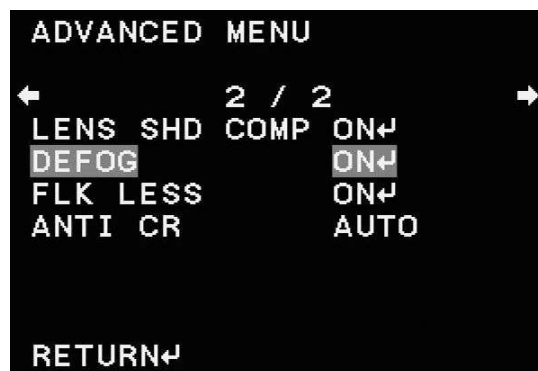


3.2 PICT ADJUST

Select to bring up the PICT ADJUST sub-menu for further settings



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Select to bring up the PICT ADJUST sub-menu for further settings



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Function	Option
BRIGHTNESS	000-255
CONTRAST	000-255
SHARPNESS	000-255
HUE	000-255
COLOR GAIN	000-255

```

PICT ADJUST

BRIGHTNESS  |===== 000
CONTRAST    |=====  00
SHARPNESS   ===|===  08
HUE         ===|=== 086
COLOR GAIN  ===|=== 118

RETURN↵

```

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Function	Option
BRIGHTNESS	000-255
CONTRAST	000-255
SHARPNESS	000-255
HUE	000-255
COLOR GAIN	000-255

```

PICT ADJUST

BRIGHTNESS  |===== 000
CONTRAST    |=====  00
SHARPNESS   ===|===  08
HUE         ===|=== 086
COLOR GAIN  ===|=== 118

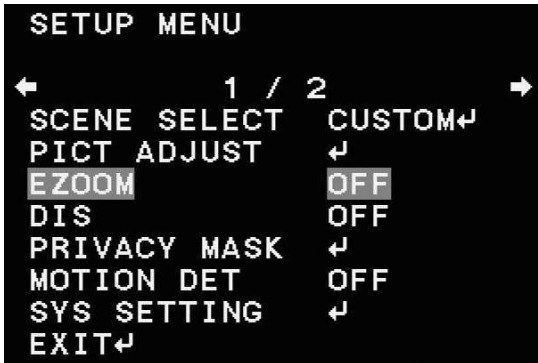
RETURN↵

```

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3.3 EZOOM

In the OSD main menu to choose " EZOOM", Press “ENTER” button to bring up the setup sub-menu, in the EZOOM SETUP, users can do setup according to the needs of area size and position.

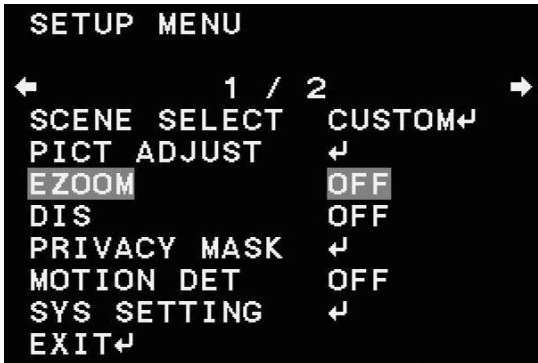


3.4 DIS (Digital image stabilization)

Digital image stabilization (DIS) is a family of techniques used to reduce blurring associated with the motion of a camera during exposure. Specifically, it compensates for pan and tilt (angular movement, equivalent to yaw and pitch) of a camera or other imaging device. It is used in image-stabilized binoculars, still and video cameras, and astronomical telescopes. With still cameras, camera shake is particularly problematic at slow shutter speeds or with long focal length (telephoto) lenses.

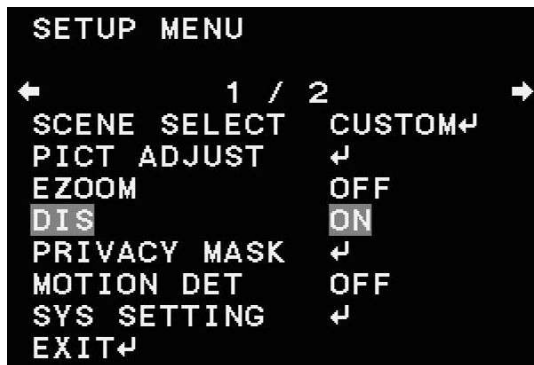
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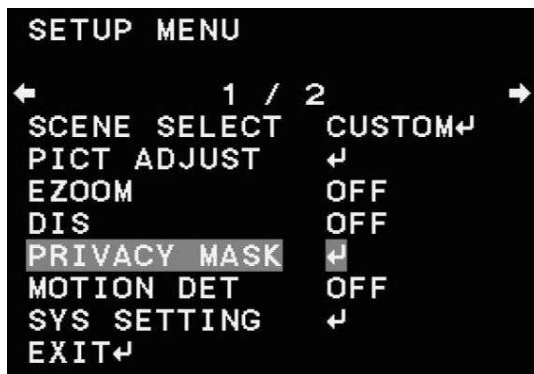
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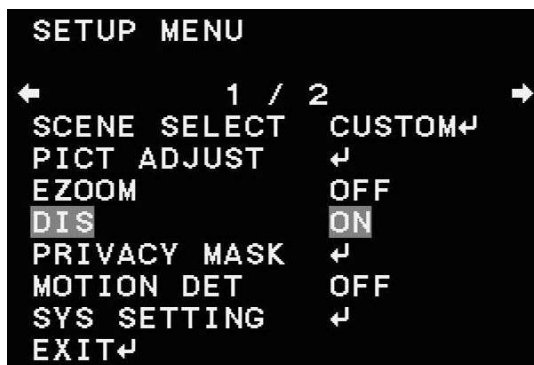


3.5 Privacy

15 areas optional, user can adjust the size, position, color, transparency of the chosen area



23



3.5 Privacy

15 areas optional, user can adjust the size, position, color, transparency of the chosen area



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Privacy shield can be setup for 1-15 areas, when mode is setup to open, users can press the “up” “down” "left" "right" “ENTER” to select the parameter of areas’ DISPLAY, POSITION, COLOR,TRANSP.



3.6 Motion detection

In the OSD main menu to choose “MOTION DETECTION "press the "left" "right" to select "On", and press “ENTER” button to bring up the MOTION DETECTION sub-menu.

In the motion detection sub-menu, users can do setup according to the needs of detection sense, interval, mask area, monitor area

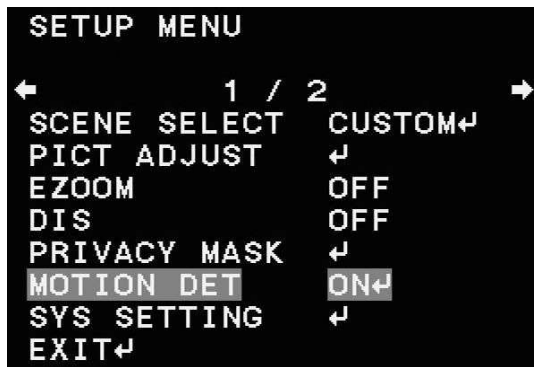
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The detect sense: 0-127.

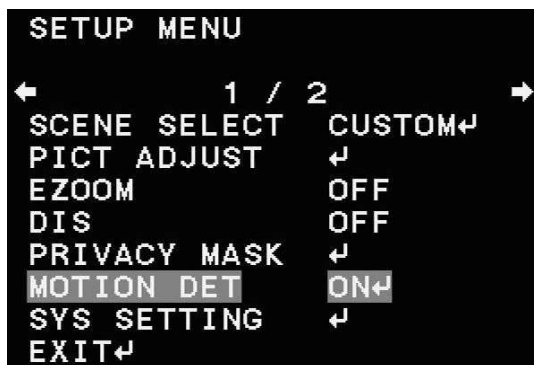
Interval:0-127

Block DISP: there is on/off two choices. There is a diagram displaying when you choose on, otherwise, there is not diagram

Mask area: Set whether to participate in the relevant area motion detection, when the block selected area, this area will be involved in motion detection.

Monitoring area: Four visual surveillance area and users can adjust the parameter value to adjust the surveillance area location.

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The detect sense: 0-127.

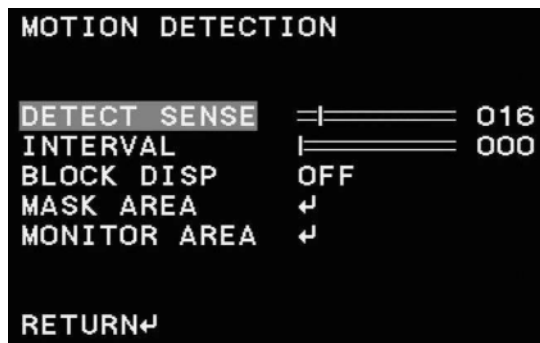
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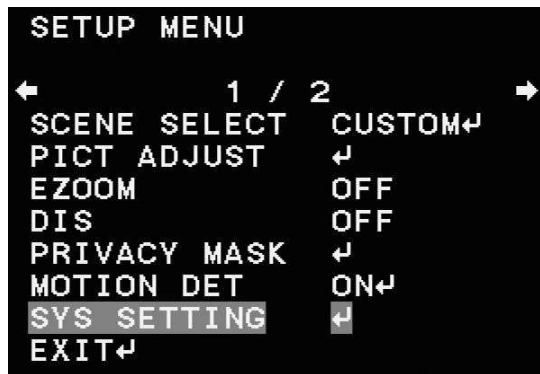
Monitoring area: Four visual surveillance area and users can adjust the parameter value to adjust the surveillance area location.

25



3.7 SYS Setting

Move the cursor to “system setting” press “enter” to set the submenu.

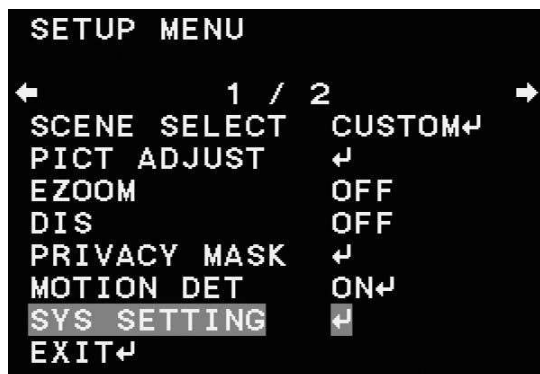


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3.7 SYS Setting

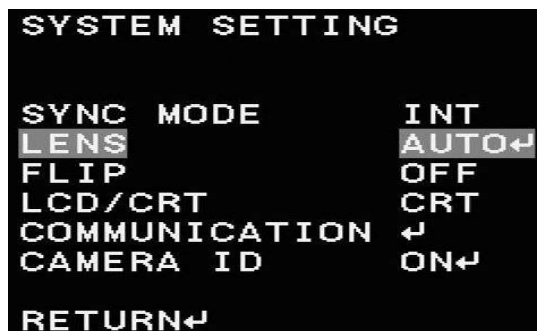
Move the cursor to “system setting” press “enter” to set the submenu.



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3.7.1 Sync Camera

the system default is "Internal synchronization" mode

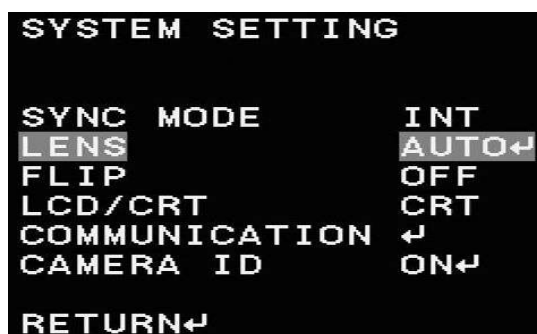


3.7.2 Lens

Lens Type can be set to "Auto" lens, "manual" Lens 2 types, the user can select the type of lens by the menu "left and right". When using the optional auto iris lens can select "DC / VIDEO" lens type, the user can adjust the "speed" value to adjust the speed of the auto iris open. The smaller the value, the slower the aperture opens, the greater the value, the faster the aperture opens . Auto iris lens adjustment function, move the cursor to "adjust" item, press the enter button, the camera will automatically set the relevant parameters to match the different types of lenses.

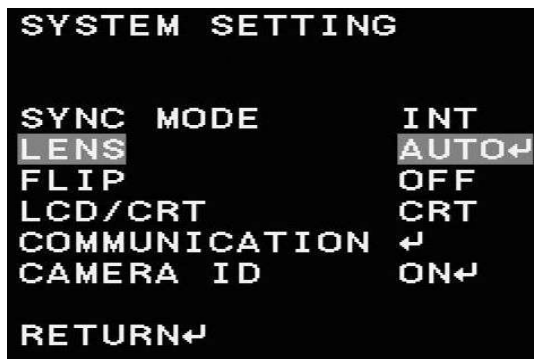
3.7.1 Sync Camera

the system default is "Internal synchronization" mode



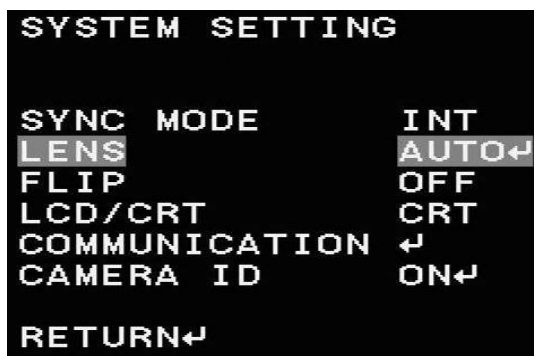
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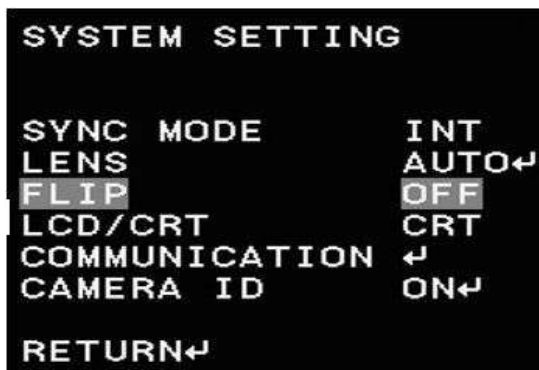
3.7.3 Image flip function

Move the cursor to "flip" item, press left and right to select "off" to "flip" turn "vertical" "horizontal vertical flip" option.



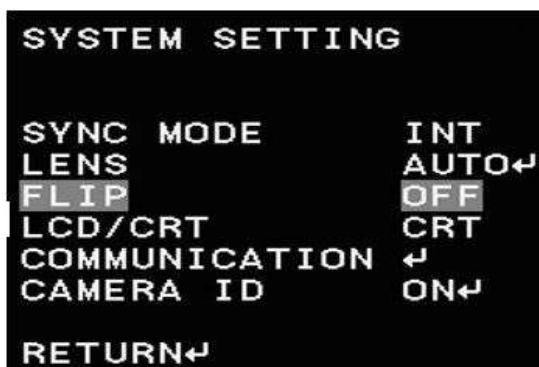
3.7.3 Image flip function

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3.7.4 Communication

In the System Settings sub-menu, move the cursor to the "Communication", press "ENTER" to enter the communication settings sub-menu, the user can set up "address", "baud rate" and other settings according to their needs.



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```

COMMUNICATION

PROTOCOL          PELCO-D
ADDRESS           |===== 001
BAUDRATE          2400
DATABIT           8BIT
PARITY            OFF
STOPBIT           1BIT

RETURN↵

```

3.7.5 Camera ID

In system settings submenu, move the cursor to "CAMERA ID SETUP" option, press the "ENTER" key to enter into the camera set up submenu. Then can set the camera name.

```

CAMERA ID SETUP

█

ABCDEF GHI JKLMNOPQRSTU
VWXYZ0123456789!"#$%&'(
)_`.,¥: ;<=>?@\^*+↵↵/
      CHR1      CHR2
    ↵↵↵↵ CLR↵ POS↵
RETURN↵

```

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```

COMMUNICATION

PROTOCOL          PELCO-D
ADDRESS           |===== 001
BAUDRATE          2400
DATABIT           8BIT
PARITY            OFF
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CAMERA ID SETUP

█

ABCDEF GHI JKLMNOPQRSTU
VWXYZ0123456789!"#$%&'(
)_`.,¥: ;<=>?@\^*+↵↵/
      CHR1      CHR2
    ↵↵↵↵ CLR↵ POS↵
RETURN↵

```

30

You can set the camera code as numbers, uppercase letters, and related symbols..

“←↑↓→” Cursor for left and right

“CLR” Clear camera name

“POS” for position.

“RETURN”return to the upper menu.

3.8 Language

Move to the first line of the main menu, press left or right to enter the next page to set.\

The “Language” function were designed for the Surveillance camera’ menu, there are eight languages “English, Chinese, Japanese, German, French, Russian, Portuguese, Spanish” , user can press left or right bottom to choose.



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3.9 MAINTENANCE

Maintenance is for WHITE PIXEL MASK and CAMERA RESET



3.9.1 White Pixel Mask

When used in high-temperature environment, there might be dead pixel on CCD sensor. With this function on, the dead pixel is to be masked so as to improve the picture quality.

There are three options---Manual , Auto and clear data

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3.9.2 Camera reset

“Camera reset” designed to delete all the configuration it set before, please confirm before this operation, or it will restore factory setting.



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3.10 EXIT / SAVE ALL

Press to restore all the settings to the default values.

SAVE ALL

Press to save all the settings made.

NOTE:

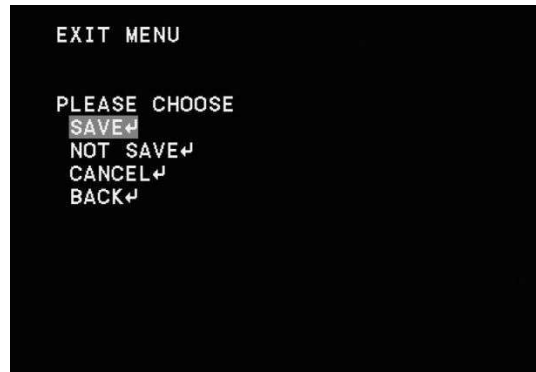
There will be no prompt windows while the settings are being saved.

EXIT

Press to exit the OSD menu.

NOTE:

Before exit the OSD menu, please press SAVE ALL<↵> to save all the settings made. Fail to do that, all the settings will not take effect once the power is reconnected.



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SAVE ALL

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NOTE:

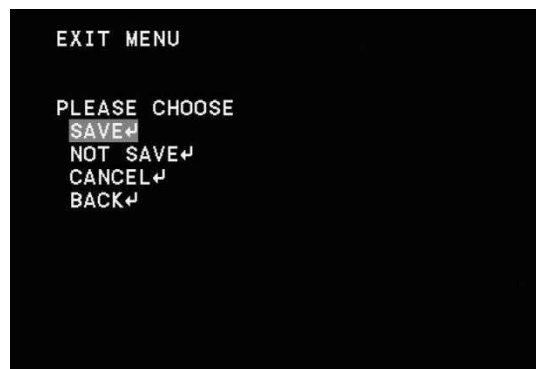
There will be no prompt windows while the settings are being saved.

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NOTE:

Before exit the OSD menu, please press SAVE ALL<↵> to save all the settings made. Fail to do that, all the settings will not take effect once the power is reconnected.



IV、Specification

Image Sensor	1/3 Sony Double Scan CCD+EFFIO-V CXD4141 DSP
Effective Pixel	PAL:976(H)×582(V) NTSC:976(H)×494(V)
System	PAL/NTSC
WDR	Low/Middle/High
SYNC	Internal
Shutter	1/50~1/10000s;
AGC	Auto AGC/AGC+Slow Shutter
S/N Ratio	More than 50dB (AGC OFF)
Video Out	1.0Vp-p,75ohms
Resolution	700TVL
Minimum Illumination	Color 0.1Lux(F1.2,50IRE,AGC ON), B/W :0.001Lux(F1.2,50IRE,AGC ON)
Day/Night	Day/Auto/Night
Day/Night Switching time	0~255
Lens	Manual/Auto
Privacy	1~15 Zones

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Motion Detect	4 Zones
Video Output	BNC
White Balance	ATW/PUSH/User1/User 2/Manual/PUSH LOCK
Flip	Vertical/Horizontal/ Verital+Horizontal/Off
Title	yes
Title Position	Anywhere on the screen
NR	0-6
OSD	CHINESE/ENGLISH /JAPANESE/SPANISH/RUSSIAN/GERMANY/FRENCH/PORTUGUREE
Contrast	0-255
Sharpness	0-15
Power	DC12V±10% (AC24V Optional)
Consumption	2.0W
Operating Temperature	-10 ⁰ C~+50 ⁰ C
Operating Humidity	Less than 90%
Storage Temperature	-40 ⁰ C~+60 ⁰ C
Storage Humidity	20~95%

Motion Detect	4 Zones
Video Output	BNC
White Balance	ATW/PUSH/User1/User 2/Manual/PUSH LOCK
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V、FAQ

- 1、No Image after installation
 - a、check if the power is on
 - b、check the cable connection。
 - c、check if the monitor is on
- 2、flicking image after installation
Check the cable connection
- 3、could not control OSD by RS485
 - a、check the cable connection
 - b、check the communication address and baud rate
- 4、camera does not turn B/W at night
Set the Day/Night Mode to Auto through OSD
- 5、Noisy Image at night
Turn on the AGC function。
- 6、Abnormal color
 - a、Set the white balance mode to Auto White Balance。
 - b、return to default setting through OSD。
- 7、Image too bright after installation

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- a、 check the Lens' Iris
- b、 check the brightness of the monitor

8、 Unclear image

- a、 check the lens' focus
- b、 check if the lens

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- b、 check the brightness of the monitor

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- a、 check the lens' focus
- b、 check if the lens

